RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical

Application Serial Number: 10/582,622 1FWP 6/21

ENTERED



IFWP

RAW SEQUENCE LISTING DATE: 06/21/2006
PATENT APPLICATION: US/10/582,622 TIME: 11:29:19

Input Set : A:\PTO.KD.txt

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5 <110> APPLICANT: Obermeier, Axel
             Bieger, Boris
     10 <120> TITLE OF INVENTION: Methods of identifying, selecting and/or characterizing
compounds which
             modulate the activity of a Src familiy kinase
     15 <130> FILE REFERENCE: 2993-1-001PCT/US
C--> 19 <140> CURRENT APPLICATION NUMBER: US/10/582,622
C--> 21 <141> CURRENT FILING DATE: 2006-06-12
     25 <150> PRIOR APPLICATION NUMBER: EP 03028713.0
     27 <151> PRIOR FILING DATE: 2003-12-12
     31 <160> NUMBER OF SEQ ID NOS: 51
     35 <170> SOFTWARE: PatentIn version 3.1
     39 <210> SEQ ID NO: 1
    41 <211> LENGTH: 536
     43 <212> TYPE: PRT
     45 <213> ORGANISM: Homo sapiens
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                                    40
     71 Gly Pro Ser Ala Ala Phe Ala Pro Ala Ala Ala Glu Pro Lys Leu Phe
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     75 Gly Gly Phe Asn Ser Ser Asp Thr Val Thr Ser Pro Gln Arg Ala Gly
                           70
    79 Pro Leu Ala Gly Gly Val Thr Thr Phe Val Ala Leu Tyr Asp Tyr Glu
                       85
                                            90
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    88 Ile Val Asn Asn Thr Glu Gly Asp Trp Trp Leu Ala His Ser Leu Ser
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                               135
    96 Ser Ile Gln Ala Glu Glu Trp Tyr Phe Gly Lys Ile Thr Arg Arg Glu
                           150
    100 Ser Glu Arg Leu Leu Asn Ala Glu Asn Pro Arg Gly Thr Phe Leu
                        165
                                             170
    104 Val Arg Glu Ser Glu Thr Thr Lys Gly Ala Tyr Cys Leu Ser Val Ser
    105
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112	Lys	Leu	Asp	Ser	Gly	Gly	Phe	Tyr	Ile	Thr	Ser	Arg	Thr	Gln	Phe	Asn
113		210					215					220				
	Ser	Leu	Gln	Gln	Leu		Ala	Tyr	Tyr	Ser		His	Ala	Asp	Gly	Leu
	225		_	_	_,	230		_	_		235	_	_	~-		240
	Cys	Hıs	Arg	Leu		Thr	Val	Cys	Pro		Ser	Lys	Pro	Gln		Gln
121	~1	T 011	71.	T	245	77.	Поль	~1	-1 -	250	7	~1	C	T	255	• • • •
125	Gly	теп	Ala	260	Asp	Ala	пр	GIU	265	PIO	Arg	GIU	ser	270	Arg	ьеu
	Glu	Val	Lvs		Glv	Gln	Glv	Cve		Glv	Glu	Val	ጥጕካ		Glv	Thr
129		, 41	275	200	0_7	0111	0-7	280		O _T	014	• • • •	285		OLY	1111
	Trp	Asn	Gly	Thr	Thr	Arq	Val		Ile	Lys	Thr	Leu		Pro	Gly	Thr
133	-	290	-			_	295			•		300	•		•	
136	Met	Ser	Pro	Glu	Ala	Phe	Leu	Gln	Glu	Ala	Gln	Val	Met	Lys	Lys	Leu
137	305					310					315					320
140	Arg	His	Glu	Lys	Leu	Val	Gln	Leu	Tyr	Ala	Val	Val	Ser	Glu	Glu	Pro
141	_		_		325	_				330					335	
	Ile	Tyr	Ile		Thr	Glu	Tyr	Met		Lys	Gly	Ser	Leu		Asp	Phe
145	T	T	~1	340	mla -a	a 1	T	m	345	3	.	D	~ 3	350	**- 1	•
148	Leu	ьуs	355	GIU	Thr	GIY	ьys	1yr 360	Leu	Arg	Leu	Pro		Leu	val	Asp
	Met	Δla		Gln	Tla	Δl =	Car		Mot	Δla	ጥላታ	17 - 1	365	λνα	Mat	Nan
153	Mec	370	AIA	GIII	116	Ата	375	GIY	Mec	АТА	ıyı	380	GIU	Arg	Mec	ASII
	Tyr		His	Ara	Asp	Leu		Ala	Ala	Asn	Ile		Val	Glv	Glu	Asn
	385			5		390	3				395			1		400
160	Leu	Val	Cys	Lys	Val	Ala	Asp	Phe	Gly	Leu	Ala	Arg	Leu	Ile	Glu	Asp
161				-	405		_		_	410		_			415	-
164	Asn	Glu	Tyr	Thr	Ala	Arg	Gln	Gly	Ala	Lys	Phe	${\tt Pro}$	Ile	Lys	Trp	Thr
165			~=	420					425					430		
	Ala	Pro		Ala	Ala	Leu	Tyr		Arg	Phe	Thr	Ile		Ser	Asp	Val
169		a	435	~ 3	-1.		- .	440	~ 1	_			445	~-3		
	Trp		Pne	GIY	TTE	Leu		Thr	GIU	Leu	Thr		ьуѕ	GIA	Arg	Val
173	Pro	450	Pro	Glv	Mot	₩a1	455	λνα	Glu	17a l	T.011	460	Gln	Val	Gl.	7.20
	465	TYT	FIO	Gry	Mec	470	ASII	Arg	GIU	vai	475	АБР	GIII	vai	GIU	480
	Gly	Tvr	Ara	Met	Pro		Pro	Pro	Glu	Cvs	-	Glu	Ser	Leu	His	
181	2	-1-	5		485	-1				490					495	
184	Leu	Met	Cys	Gln	Cys	Trp	Arg	Lys	Glu	Pro	Glu	Glu	Arq	Pro	Thr	Phe
185			-	500	_	_		-	505				_	510		
188	Glu	Tyr	Leu	Gln	Ala	Phe	Leu	Glu	Asp	Tyr	Phe	Thr	Ser	Thr	Glu	Pro
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		<211> LENGTH: 536														
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RAW SEQUENCE LISTING DATE: 06/21/2006
PATENT APPLICATION: US/10/582,622 TIME: 11:29:19

Input Set : A:\PTO.KD.txt

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225	Pro	Ala	Ser	Gln	Thr	Pro	Ser	Lys	Pro	Ala	Ser	Ala	Asp	Gly	His	Arg
226			35					40					45			
229	Gly	Pro	Ser	Ala	Ala	Phe	Ala	Pro	Ala	Ala	Ala	Glu	Pro	Lys	Leu	Phe
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233	Gly	Gly	Phe	Asn	Ser	Ser	Asp	Thr	Val	Thr	Ser	Pro	Gln	Arg	Ala	Gly
234						70					75			_		80
237	Pro	Leu	Ala	Gly	Gly	Val	Thr	Thr	Phe	Val	Ala	Leu	Tyr	Asp	Tyr	Glu
238					85					90			_	_	95	
241	Ser	Arg	Thr	Glu	Thr	Asp	Leu	Ser	Phe	Lys	Lys	Gly	Glu	Arg	Leu	Gln
242				100		_			105		_	_		110		
245	Ile	Val	Asn	Asn	Thr	Glu	Gly	Asp	Trp	Trp	Leu	Ala	His	Ser	Leu	Ser
246			115				-	120	-	-			125			
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262				180				4	185		1			190		
265	Asp	Phe	Asp	Asn	Ala	Lys	Glv	Leu	Asn	Val	Lvs	His	Tvr	Lvs	Ile	Ara
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278	-				245			•		250					255	
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282				260	-		•		265					270		
285	Glu	Val	Lys	Leu	Gly	Gln	Gly	Cys	Phe	Gly	Glu	Val	Trp	Met	Glv	Thr
286			275		•		-	280		-			285		4	
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		His	Glu	Lvs	Leu	Val	Gln	Leu	Tvr	Ala		Val	Ser	Glu	Glu	
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	Ile	Tyr	Ile	Val		Glu	Tvr	Met	Ser		Glv	Ser	Leu	Leu		Phe
302		4		340			- 1 -		345	-1.5	1			350	<u>F</u>	
	Leu	Lys	Glv		Thr	Gly	Lvs	Tvr		Ara	Leu	Pro	Gln		Val	Asp
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RAW SEQUENCE LISTING DATE: 06/21/2006
PATENT APPLICATION: US/10/582,622 TIME: 11:29:19

Input Set : A:\PTO.KD.txt

Output Set: N:\CRF4\06212006\J582622.raw

309 Met Ala Ala Gln Ile Ala Ser Gly Met Ala Tyr Val Glu Arq Met Asn 310 370 375 313 Tyr Val His Arg Asp Leu Arg Ala Ala Asn Ile Leu Val Gly Glu Asn 390 395 317 Leu Val Cys Lys Val Ala Asp Phe Gly Leu Ala Arg Leu Ile Glu Asp 321 Asn Glu Tyr Thr Ala Arg Gln Gly Ala Lys Phe Pro Ile Lys Trp Thr 425 325 Ala Pro Glu Ala Ala Leu Tyr Gly Arg Phe Thr Ile Lys Ser Asp Val 440 329 Trp Ser Phe Gly Ile Leu Leu Thr Glu Leu Thr Thr Lys Gly Arg Val 330 450 455 333 Pro Tyr Pro Gly Met Val Asn Arg Glu Val Leu Asp Gln Val Glu Arg 470 475 337 Gly Tyr Arg Met Pro Cys Pro Pro Glu Cys Pro Glu Ser Leu His Asp 485 490 341 Leu Met Cys Gln Cys Trp Arg Lys Glu Pro Glu Glu Arg Pro Thr Phe 505 345 Glu Tyr Leu Gln Ala Phe Leu Glu Asp Tyr Phe Thr Ser Thr Glu Pro 520 349 Gln Tyr Gln Pro Gly Glu Asn Leu 530 350 353 <210> SEQ ID NO: 3 355 <211> LENGTH: 536 357 <212> TYPE: PRT 359 <213> ORGANISM: Homo sapiens 363 <220> FEATURE: 365 <221> NAME/KEY: misc_feature 367 <223> OTHER INFORMATION: Description of sequence: Src-TQ 371 <400> SEQUENCE: 3 373 Met Gly Ser Asn Lys Ser Lys Pro Lys Asp Ala Ser Gln Arg Arg Arg 377 Ser Leu Glu Pro Ala Glu Asn Val His Gly Ala Gly Gly Ala Phe 381 Pro Ala Ser Gln Thr Pro Ser Lys Pro Ala Ser Ala Asp Gly His Arg 385 Gly Pro Ser Ala Ala Phe Ala Pro Ala Ala Glu Pro Lys Leu Phe 55 389 Gly Gly Phe Asn Ser Ser Asp Thr Val Thr Ser Pro Gln Arg Ala Gly 70 394 Pro Leu Ala Gly Gly Val Thr Thr Phe Val Ala Leu Tyr Asp Tyr Glu 90 398 Ser Arg Thr Glu Thr Asp Leu Ser Phe Lys Lys Gly Glu Arg Leu Gln 100 105 402 Ile Val Asn Asn Thr Glu Gly Asp Trp Trp Leu Ala His Ser Leu Ser 120 406 Thr Gly Gln Thr Gly Tyr Ile Pro Ser Asn Tyr Val Ala Pro Ser Asp 135 410 Ser Ile Gln Ala Glu Glu Trp Tyr Phe Gly Lys Ile Thr Arg Arg Glu

RAW SEQUENCE LISTING DATE: 06/21/2006 PATENT APPLICATION: US/10/582,622 TIME: 11:29:19

Input Set : A:\PTO.KD.txt

411	145					150					155					160
		Glu	7~~	LOU	T 011		Asn	777	C111	7 an		7 ~~~	C1	Ωh ~	Dho	
415	261	Gru	AL 9	пси	165	neu	ASII	AIa	GIU	170	PIO	Arg	Gry	1111	175	ьец
	นาไ	7120	Clu	cor		πh∽	Thr	T 7.7.0	C111		Пъ гъ	Crea	T 011	Co~		Cox
419	val	Arg	GIU	180	GIU	1111	1111	пуъ	185	Ата	IÀT	Cys	neu		vai	Ser
	7 an	Dho	7 00		ח ד ת	Tva	Gly	T 011		17-1	T ***	III a	Ma rac	190	т1 о	7 200
423	Asp	FILE	195	ASII	Ата	пуъ	Gry	200	VOII	vaı	БАР	птъ	205	пÀг	116	Arg
	Two	T OIL		602	C1**	C1.,	Dho		Tla	Th~	Cox	7~~		C1=	Dho	7.00
427	пур	210	ASP	ser	GIY	Gry	Phe 215	ıyı	116	1111	ser	220	1111	GIII	Pne	ASII
	Cor	-	Cln	Gln.	Ton	17 n l	Ala	- πτ.τ~	Тъ гъ	co~	Tara		71-	7.00	C1	T 011
	225	шец	GIII	GIII	пец	230	ΑΙα	TYL	ıyı	SET	235	птъ	Ala	ASP	GIY	240
		uic	Ara	T.A11	Thr		Val	Cvc	Dro	Thr		Tara	Dro	Cln	Thr	
435	Cys	1115	AI 9	пси	245	1111	vai	Сув	FIO	250	per	цуъ	PIO	GIII	255	GIII
	Glv	T.011	Δ 1 =	Lare		Δla	Trp	Glu	Tla		λνα	Glu	Sor	Leu		Tan
439	GLY	цси	πıα	260	rop	ΑΙα	пр	GIU	265	FIO	Arg	GIU	PET	270	ALG	пец
	Glu	Val	Lve		G1 ₃₇	Gln	Gly	Cve		Glv	Glu	17 = 1	Trn		G1 v	ጥኮሎ
443	OIU	VUI	275	пси	OLY	GIII	GLY	280	FIIC	Gry	Gra	vai	285	Mec	Gry	1111
	Trn	Δen		Thr	Thr	Ara	Val		Tla	Tare	Thr	T.Ou		Dro	Gl v	Thr
447	rrp	290	GLY	1111	1111	Arg	295	AIG	116	цуз	1111	300	цуз	FIO	Gry	TIIL
	Met		Pro	Glu	Δla	Phe	Leu	Gln	Glu	Δla	Gln		Met	Lvc	Lve	T.e.11
	305	D C1	110	014		310	DCU	01	Olu	mu	315	vai	MCC	цуо	טענ	320
		His	Glu	Lvs	Len		Gln	Len	Tvr	Δla		Val	Ser	Glu	Glu	
455	9		014	2,5	325	•	0111	пси	-7-	330	val	vai	JCI	Olu	335	110
	Tle	Tvr	Tle	val		Glu	Tyr	Met	Ser		Glv	Ser	T.e.ii	T.e.i		Phe
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463		-1-	355			0-1	-10	360		9			365			
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467		370					375	1			-1-	380		3		
470	Tvr	Val	His	Ara	Asp	Leu	Arg	Ala	Ala	Asn	Ile		Val	Glv	Glu	Asn
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474	Leu	Val	Cys	Lys	Val	Ala	Asp	Phe	Gly	Leu	Ala	Arq	Leu	Ile	Glu	Asp
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495					485					490					495	
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VERIFICATION SUMMARYDATE: 06/21/2006PATENT APPLICATION: US/10/582,622TIME: 11:29:20

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L:19 M:270 C: Current Application Number differs, Replaced Current Application Number L:21 M:271 C: Current Filing Date differs, Replaced Current Filing Date